

**STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK**



MASTER SYLLABUS

CITA 460 - INFORMATION TECHNOLOGY AND NETWORKED ECONOMY

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**CANINO SCHOOL OF ENGINEERING TECHNOLOGY
DECISION SYSTEMS
FALL 2018**

- A. **TITLE:** Information Technology and Networked Economy
- B. **COURSE NUMBER:** CITA 460
- C. **CREDIT HOURS:** (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)

Credit Hours: 3
 # Lecture Hours: 3 per week
 # Lab Hours: per week
 Other: per week

Course Length: 15 Weeks

D. **WRITING INTENSIVE COURSE:** No

E. **GER CATEGORY:** None

F. **SEMESTER(S) OFFERED:** Fall

G. **COURSE DESCRIPTION:** This course examines the fundamental concepts and components of Information Technology from both managerial and professional end user perspective. The course also explores the foundations of information systems to the demands of electronic commerce, connectivity, and networked economy.

H. **PRE-REQUISITES/CO-REQUISITES:**

- a. Pre-requisite(s): Senior status in a 4-year program
- b. Co-requisite(s): none
- c. Pre- or co-requisite(s): none

I. **STUDENT LEARNING OUTCOMES:**

By the end of this course, the student will be able to:

<u>Course Student Learning Outcome [SLO]</u>	<u>PSLO</u>	<u>ISLO</u>
a. Specify fundamental concepts and components of Information Technology from both managerial and professional end user perspective	3. Demonstrate a solid understanding of the methodologies and foundations of IT 5. Explain the role of management as it applies to business practices in IT	5
b. Summarize and compare information requirements for various types of decision making and planning strategies	3. Demonstrate a solid understanding of the methodologies and foundations of IT	3[IM] 5
c. Evaluate the impact of information technology on society	3. Demonstrate a solid understanding of the methodologies and foundations of IT 6. Describe the societal impact of IT, including professional, ethical and social responsibilities	5
d. Dissect foundations of information systems to the	3. Demonstrate a solid understanding of the methodologies and foundations of IT	5

demands of electronic commerce, connectivity, and networked economy		
e. Recommend technology solutions to specific electronic system implementations	3. Demonstrate a solid understanding of the methodologies and foundations of IT	5
f. Exhibit examples of most current developments in specific electronic system implementations	3. Demonstrate a solid understanding of the methodologies and foundations of IT 7. Recognize the needs for continuing professional development and life-long learning to adapt to an ever-changing technological environment	5

J.

APPLIED LEARNING COMPONENT: Yes X No _____

- Classroom/Lab

K. TEXTS: None

L. REFERENCES: Various online resource such as SUNY Canton Library Books24x7
ITPro Book Database

M. EQUIPMENT: Computer lab classroom

N. GRADING METHOD: A-F

O. SUGGESTED MEASUREMENT CRITERIA/METHODS:

- Exams
- Quizzes
- Group projects

P. DETAILED COURSE OUTLINE:

I. IT in the Organization

- A. Strategic Use of Information Technology in the Digital Economy
- B. Information Technologies: Concepts and Management

II. The Web Revolution

- A. Network Computing, Discovery, Communication, and Collaboration
- B. E-Business and E-commerce
- C. Mobile, Wireless, and Pervasive Computing Environments

III. Organizational Applications

- A. Transaction Processing, Functional Applications, CRM, and Integration
- B. Enterprise Systems
- C. Global Interorganizational Systems

IV. Managerial and Decision Support Systems

- A. Knowledge Management
- B. Data Management
- C. Decision Support and Intelligent Systems

V. Implementing and Managing IT

- A. Using IT to Achieve Competitive Advantage
- B. Information Technology Economics
- C. Building Information Systems
- D. Managing Information Resources and IT Security
- E. The Impacts of IT on Organizations, Individuals, and Society

Q. **LABORATORY OUTLINE:** N/A